

Violet (Xinying) Chen

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Stevens Institute of Technology
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EMPLOYMENT **Stevens Institute of Technology** Hoboken, NJ
Assistant Professor, School of Business From September 2022

EDUCATION **Carnegie Mellon University** Pittsburgh, PA
Ph.D. in Operations Research May 2022
Dissertation: Fairness Methods in Optimization and Artificial Intelligence
Committee: Hoda Heidari, John Hooker (chair), Fatma Kilinç-Karzan, Alec Morton
M.S. in Operations Research May 2019

Georgia Institute of Technology Georgia, GA
B.S. in Applied Mathematics May 2017
B.S. in Business Administration May 2017

PUBLICATIONS Published Papers
Combining Leximax Fairness and Efficiency in a Mathematical Programming Model, V. Chen, J.N. Hooker. *European Journal of Operational Research*. 2021.
A Just Approach Balancing Rawlsian Leximax Fairness and Utilitarianism, V. Chen, J.N. Hooker. *AAAI/ACM Conference on AI, Ethics, and Society*. 2020.

Papers under Review
A Guide to Formulating Equity and Fairness in an Optimization Model, V. Chen, J.N. Hooker. *2nd. Round Revision. Annals of Operations Research*. August 2022.
Local Justice and Machine Learning: Modeling and Inferring Dynamic Ethical Judgments around High Stakes Allocations, V. Chen, J. Williams, H. Heidari, D. Leben. *August 2022*.

HONORS AND AWARDS Egon Balas Award for Best Student Paper in Operations Research March 2019
William Larimer Mellon Fellowship August 2017–May 2022

INVITED PRE-SENTATIONS **Local Justice and Machine Learning: Modeling and Inferring Dynamic Ethical Judgments around High Stakes Allocations**
(Accepted) Poster, ACM conference on Equity and Access October 2022
in Algorithms, Mechanisms, and Optimization, Washington D.C.

Online Convex Optimization Perspective for Learning from Dynamically Revealed Preferences

INFORMS Annual Meeting, Indianapolis, IN

October 2022

Combining Leximax Fairness and Efficiency in a Mathematical Programming Model

Poster, AAAI/ACM Conference on AI, Ethics, and Society, New York, NY

February 2020

TEACHING
EXPERIENCE

Instructor, Carnegie Mellon University

Operations Management, 70-371

Hybrid, Spring 2020

Undergraduate core course. Key topics: process analysis, queuing theory, inventory model, supply chain, operations strategy.

Teaching Assistant, Carnegie Mellon University

Optimization, 45-751, *MBA core*

Spring 2021 (as Head TA); Fall 2019

Probability and Statistics, 45-750/46-880, *MBA/MSBA core*

Fall 2020, Fall 2019

Business Networks, 45-951, *MBA elective*

Fall 2020

Linear Programming, 47-834, *PhD core*

Fall 2019, Fall 2018

Convex Optimization, 47-851, *PhD core*

Spring 2019

Optimization for Business, 70-257, *undergraduate core*

Spring 2019

ACTIVITIES

Mechanism Design for Social Good (MD4SG) working group

Fall 2021–Present

on Discrimination and Equality in Algorithmic Decision-making

ACM FAccT 2021 Doctoral Consortium, Virtual

March 2021

SERVICES

Ad-Hoc Journal and Conference Review

INFORMS Journal on Computing, NeurIPS, ICML, ICLR, EAAMO, CP

Conference and Panel Organizing

YinzOR 2021 Student Conference, Virtual

August 2021

CMU Women in Academia Panel, Virtual

December 2020

YinzOR 2019 Student Conference, Pittsburgh, PA

August 2019

Professional Organization

INFORMS Education Strategy Committee

October 2019–Present

CMU INFORMS Chapter

June 2020–June 2021

President, Awarded Magna Cum Laude Chapter

SKILLS

Programming/Software: Gurobi, Mosek, Python (numpy, scipy, gym, matplotlib), C++, MATLAB, Tableau

Languages: English (native), Chinese (native), Japanese (proficient)